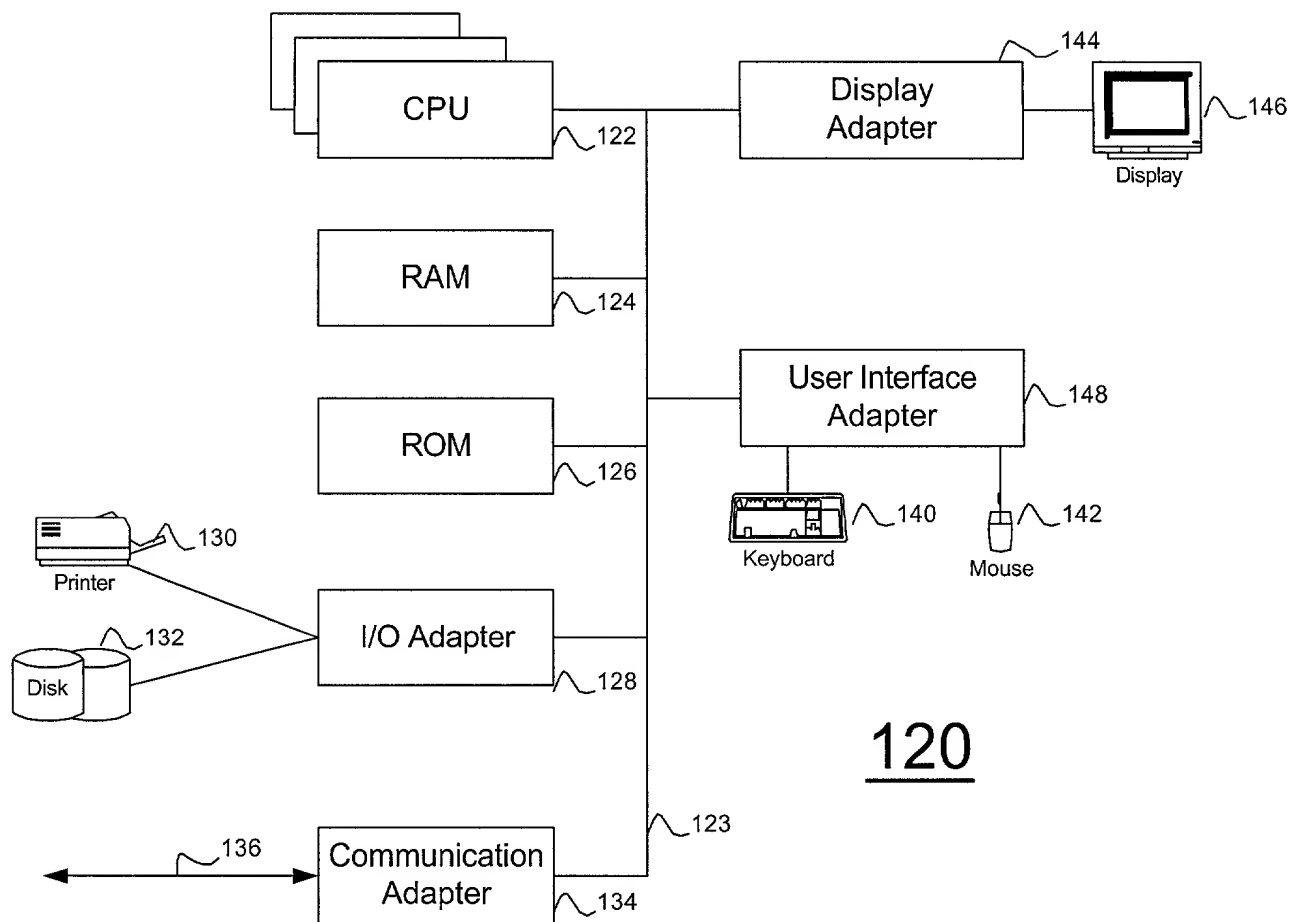
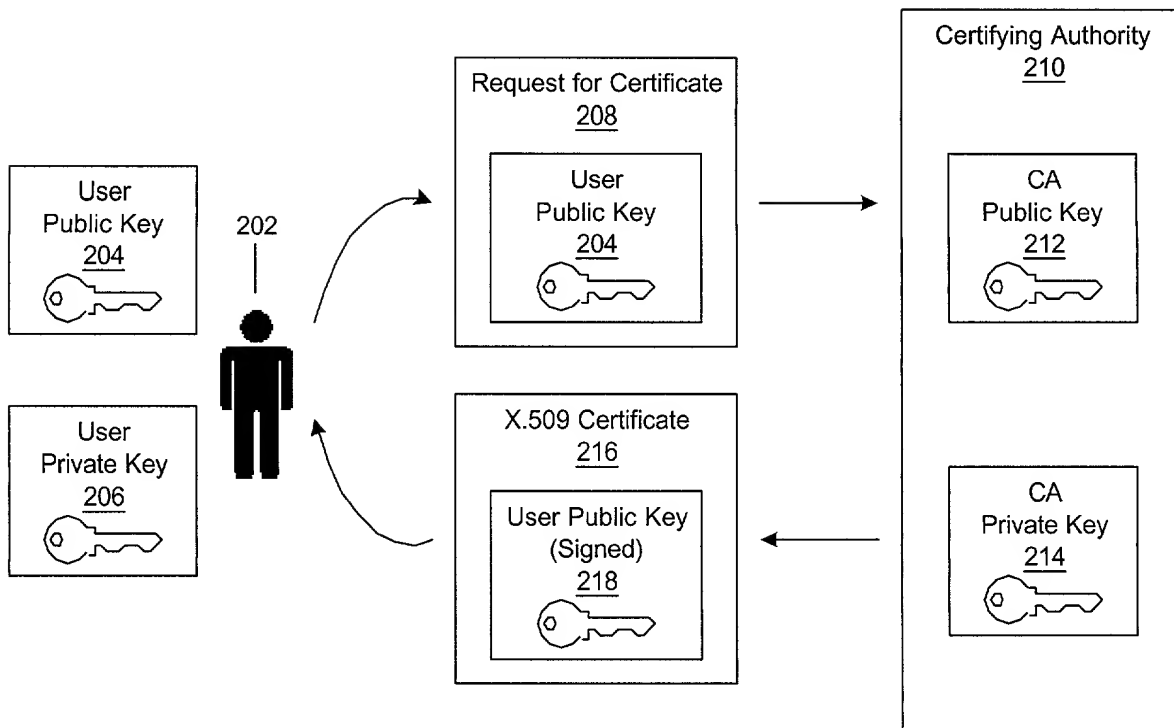


Prior Art
Figure 1A

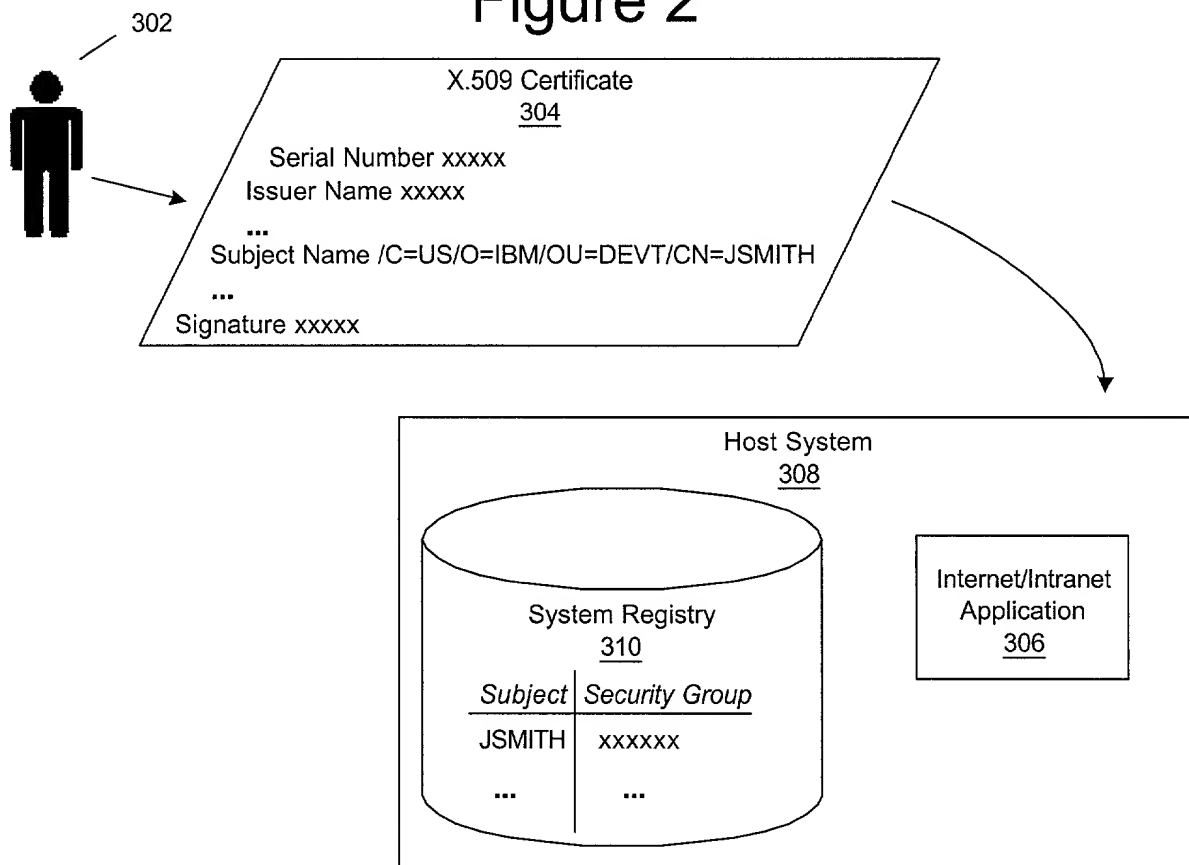


Prior Art
Figure 1B



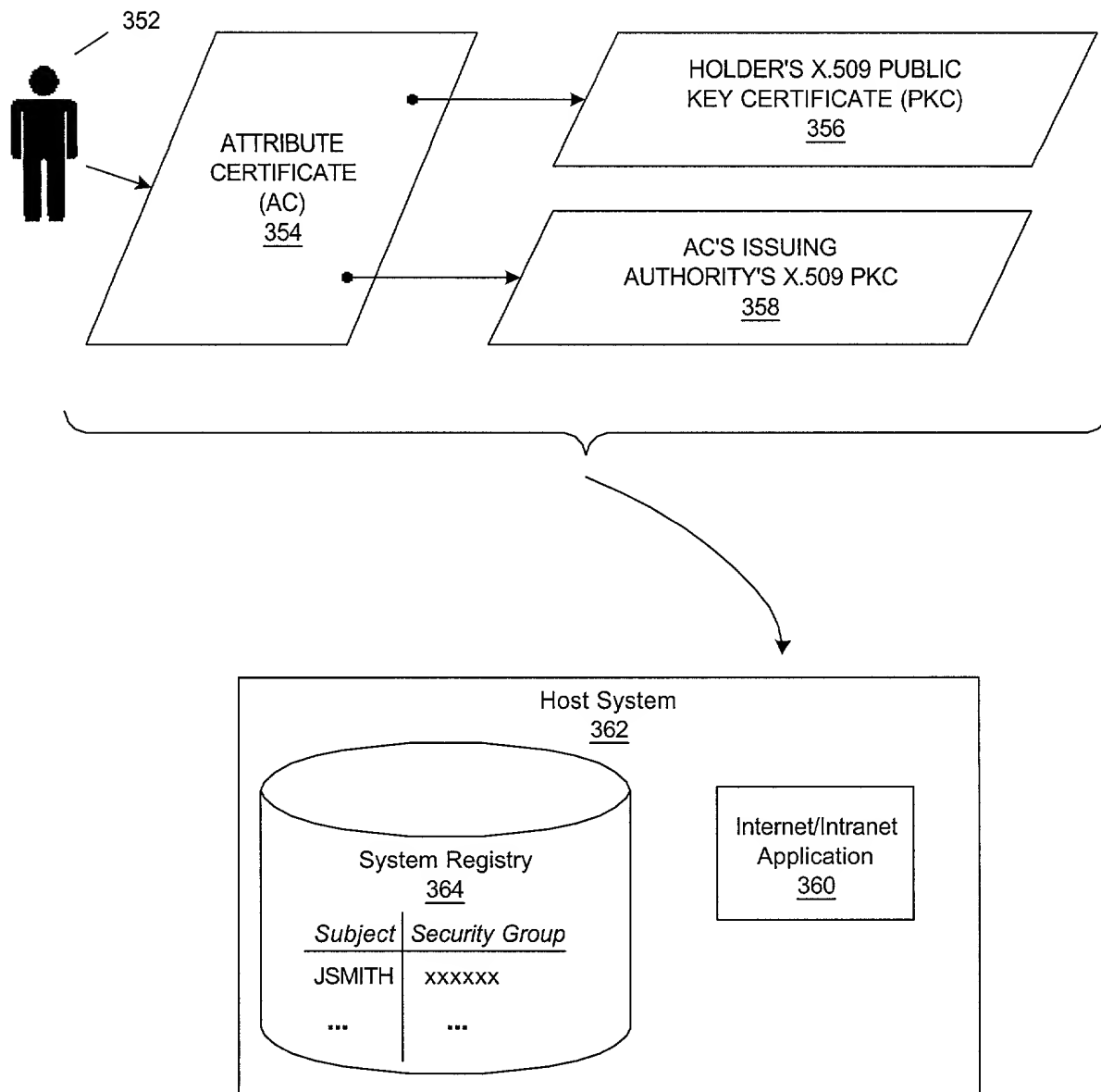
Prior Art

Figure 2



Prior Art

Figure 3A



Prior Art
Figure 3B


```

Certificate ::= SEQUENCE {
    tbsCertificate      TBSCertificate,
    signatureAlgorithm   AlgorithmIdentifier,
    signature            BIT STRING }

TBSCertificate ::= SEQUENCE {
    version              [0] Version DEFAULT v1,
    serialNumber          CertificateSerialNumber,
    signature             AlgorithmIdentifier,
    issuer                Name,
    validity              Validity,
    subject               Name,
    subjectPublicKeyInfo  SubjectPublicKeyInfo,
    issuerUniqueID        [1] IMPLICIT UniqueIdentifier OPTIONAL,
    subjectUniqueID       [2] IMPLICIT UniqueIdentifier OPTIONAL,
    extensions            [3] Extensions OPTIONAL }

Version ::= INTEGER { v1(0), v2(1), v3(2) }

CertificateSerialNumber ::= INTEGER

Validity ::= SEQUENCE {
    notBefore            Time,
    notAfter              Time }

Time ::= CHOICE {
    utcTime               UTCTime,
    generalTime           GeneralizedTime }

UniqueIdentifier ::= BIT STRING

SubjectPublicKeyInfo ::= SEQUENCE {
    algorithm             AlgorithmIdentifier,
    subjectPublicKey       BIT STRING }

Extensions ::= SEQUENCE SIZE (1..MAX) OF Extension

Extension ::= SEQUENCE {
    extnID                OBJECT IDENTIFIER,
    critical               BOOLEAN DEFAULT FALSE,
    extnValue              OCTET STRING }

```

Prior Art
Figure 5A

```

AttributeCertificate ::= SEQUENCE {
    acinfo          AttributeCertificateInfo,
    signatureAlgorithm AlgorithmIdentifier,
    signatureValue   BIT STRING
}

AttributeCertificateInfo ::= SEQUENCE {
    version          AttCertVersion DEFAULT v1,
    holder           Holder,
    issuer           AttCertIssuer,
    signature        AlgorithmIdentifier,
    serialNumber     CertificateSerialNumber,
    attrCertValidityPeriod AttCertValidityPeriod,
    attributes       SEQUENCE OF Attribute,
    issuerUniqueID   UniqueIdentifier OPTIONAL,
    extensions       Extensions OPTIONAL
}

AttCertVersion ::= INTEGER { v1(0), v2(1) }

Holder ::= SEQUENCE {
    baseCertificateID [0] IssuerSerial OPTIONAL,
    -- the issuer and serial number of
    -- the holder's Public Key Certificate
    entityName        [1] GeneralNames OPTIONAL,
    -- the name of the claimant or role
    objectDigestInfo  [2] ObjectDigestInfo OPTIONAL
    -- if present, version must be v2
}

ObjectDigestInfo ::= SEQUENCE {
    digestedObjectType ENUMERATED {
        publicKey          (0),
        publicKeyCert      (1),
        otherObjectTypes   (2) },
    -- otherObjectTypes MUST NOT
    -- be used in this profile
    otherObjectTypeID   OBJECT IDENTIFIER OPTIONAL,
    digestAlgorithm     AlgorithmIdentifier,
    objectDigest        BIT STRING
}

```

Prior Art
Figure 5B

```

AttCertIssuer ::= CHOICE {
    v1Form  GeneralNames, -- v1 or v2
    v2Form  [0] V2Form    -- v2 only
}

V2Form ::= SEQUENCE {
    issuerName      GeneralNames OPTIONAL,
    baseCertificateID [0] IssuerSerial OPTIONAL,
    objectDigestInfo [1] ObjectDigestInfo OPTIONAL
    -- at least one of issuerName, baseCertificateID
    -- or objectDigestInfo MUST be present}

```

```

IssuerSerial ::= SEQUENCE {
    issuer      GeneralNames,
    serial      CertificateSerialNumber,
    issuerUID    UniqueIdentifier OPTIONAL
}

```

```

AttCertValidityPeriod ::= SEQUENCE {
    notBeforeTime GeneralizedTime,
    notAfterTime  GeneralizedTime
}

```

```

Attribute ::= SEQUENCE {
    type      AttributeType,
    values    SET OF AttributeValue
    -- at least one value is required
}

```

AttributeType ::= OBJECT IDENTIFIER

AttributeValue ::= ANY DEFINED BY AttributeType

Priort Art

Figure 5C

```

PKClocator ::= SEQUENCE {
    holderPKClocator    [0]    GeneralNames OPTIONAL,
    authorityPKClocator [1]    GeneralNames OPTIONAL
}

```

wherein GeneralNames is defined by IETF RFC2459 as

GeneralNames ::= SEQUENCE SIZE (1..MAX) OF GeneralName

```

GeneralName ::= CHOICE {
    otherName          [0]    OtherName;
    rfc822Name         [1]    IA5String,
    dNSName            [2]    IA5String,
    x400Address        [3]    ORAddress,
    directoryName      [4]    Name,
    ediPartyName       [5]    EDIPartyName,
    uniformResourceIdentifier [6] IA5String,
    iPAddress          [7]    OCTET STRING,
    registeredID       [8]    OBJECT IDENTIFIER
}

```

Figure 6

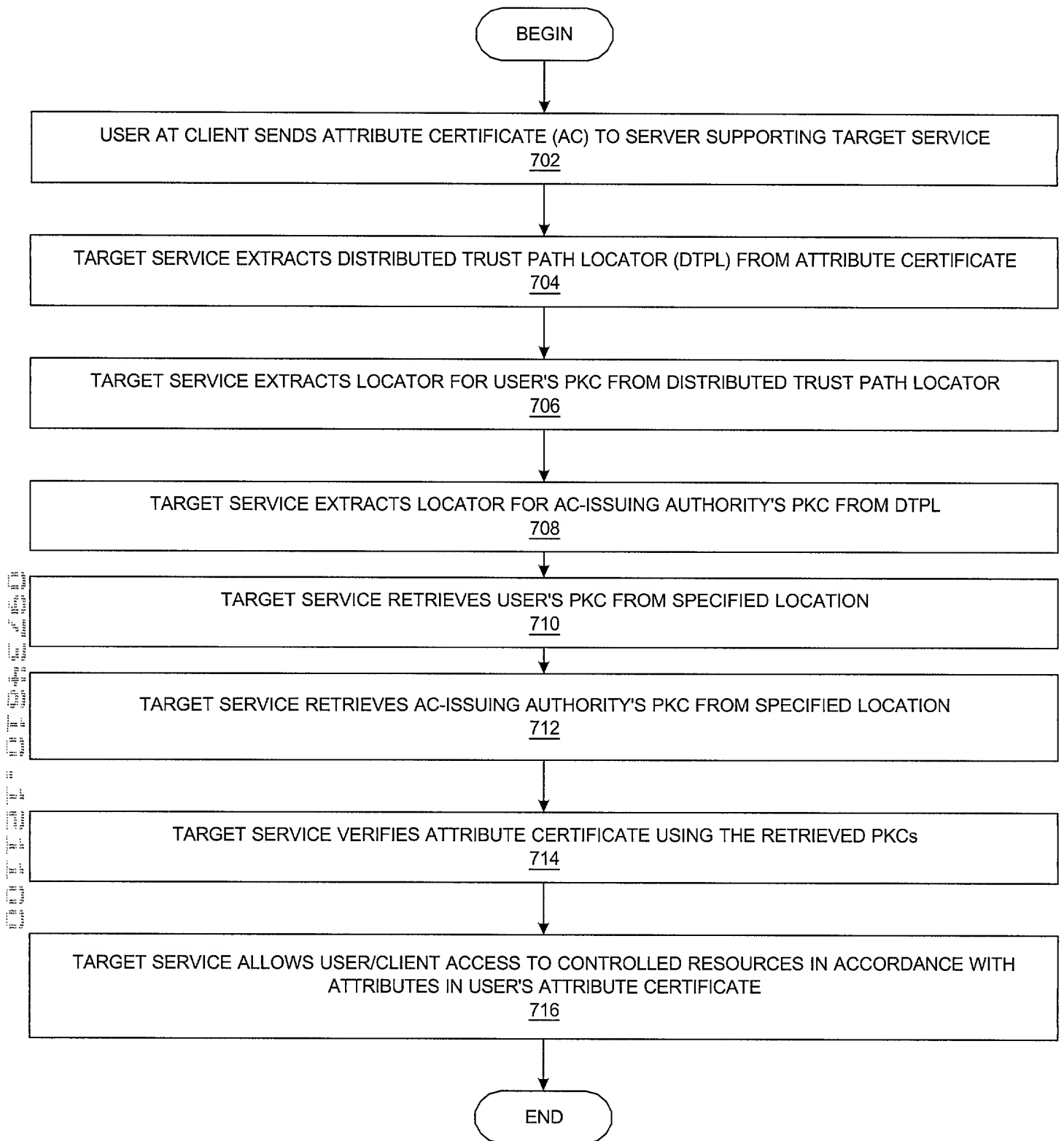


Figure 7